AWS American Weigh Scales

SG-300 User Manual

SG-300 (300g x 0.1g)

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SG-300 Manual

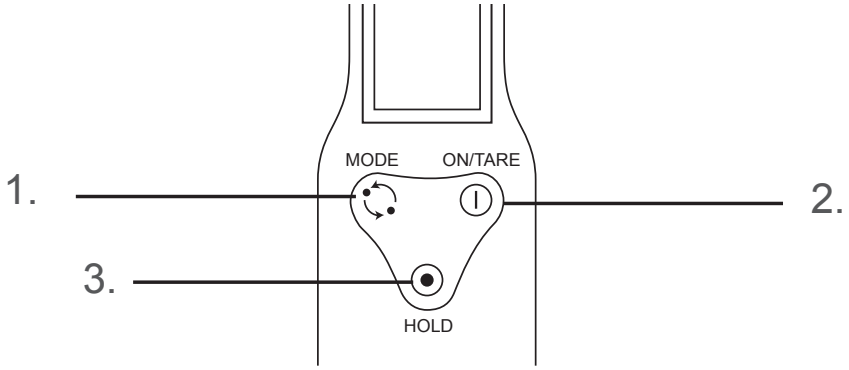
Thank you for purchasing the American Weigh SG-300 spoon scale. Please read all operating instructions carefully before use. Scales are precision measuring devices and should always be handled with proper care. To ensure years of reliable service, keep these simple tips in mind:

- When weighing, try to keep your the spoon as level and steady as possible.
- Do not exceed the scale's maximum capacity. This scale has integrated overload protection, but any overload protection has its limits!
- Avoid exposure to extreme heat or cold. Scales perform best at normal room temperature. If temperatures have changed dramatically, recalibration may be necessary.
- Allow your scale to warm up for 30-60 seconds before performing calibration (if available).
- Store your scale in a clean, dry location. Dust, dirt, and moisture can accumulate on the weighing sensors and electronics causing inaccuracy or malfunction.
- Avoid using your scale in close proximity to strong radio wave emitting devices such as cordless phones.
- Gently apply all items to be weighed. Do not drop items onto the weighing spoon.
- Avoid dropping your scale. The warranty does not cover damage due to rough treatment or overload.
- Check the batteries first if you are having any trouble with your scale. This simple step can remedy most scale issues.
- Calibration should be checked and adjusted occasionally as part of routine scale maintenance.

I. Part List

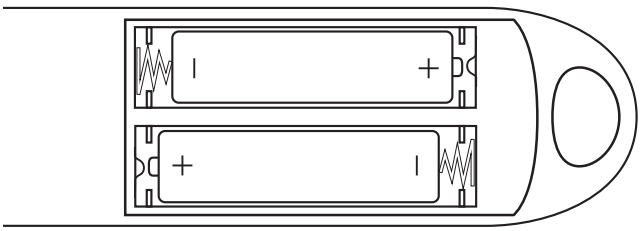
1. Scale
2. 1.5 Tbsp Weighing Spoon
3. 3.0 Tbsp Weighing Spoon
4. AAA Batteries (x2)

II. Key Description



1. **Mode Key** - Changes the displayed unit of measure.
2. **On/Tare Key** - Turns the scale on. Re-zeros the scale if pressed briefly. Hold to turn off the scale.
3. **Hold Key** - Press to hold the weight on the display.

III. Battery Installation



Proper Battery Installation

Low batteries can cause inaccuracies in digital scales. If you are experiencing issues with your scale, first try new batteries. Most times, this will solve the problem.

1. Before using the scale for the first time, check the battery compartment and remove any plastic insulation strips or packaging that may be in place to prevent battery drainage during shipping/storage.
2. If you are replacing the batteries, make sure the positive and negative contacts are properly aligned.

IV. Operation

1. Press the **ON/TARE** key to turn the scale on.
2. Once the start-up process completes and the scale goes to zero you are ready to weigh.
3. Place the quantity to be weighed onto the weighing spoon and hold it level and steady.
4. Wait a couple seconds for the display to stabilize before taking a weight reading.
5. To turn the scale OFF, press and hold the **ON/TARE** key.

V. Changing the Unit of Measure

1. Press the **MODE** key to change the scales displayed unit of measure.
2. If the scale is turned off then back on, it will default to the last unit used.

- **SG-300:** g (gram) ▶ oz (ounce) ▶ fl.oz (fluid ounce) ▶ ml (milliliter)

VI. Using the Tare Feature

Use the Tare feature to re-zero the scale if necessary

1. Press the **ON/TARE** key briefly The display will then reset to zero.

VII. Calibration

Initial calibration is performed at the factory. Calibration should only be performed by experienced users and only if the scales readings are off on a known weight such as a calibration weight. Please note that accuracy will also depend highly on the angle that you hold the scale. It should always remain level:

1. Place the required calibration weight on the scale and note the displayed value.
2. If the displayed value is not within acceptable tolerance (see chart on next page), adjustment is required.

Model	Acceptable Tolerance (±)	Calibration Weight	Recommended Accuracy Class
SG-300	0.3g	200g	OIML M2

VIII. Adjustment

1. Press and hold the **MODE** button to enter calibration mode.
2. The display will flash “CAL”. Make sure the spoon is empty and press MODE again.
3. The display will flash “200.0g”. Place a 200g calibration weight in the weighing spoon and keep the scale level and stable.
4. The display will flash “PASS” then return to normal weighing. Calibration is complete!

IX. Troubleshooting

- **Problem:** Scale will not turn on
- **Solution:** Check the batteries and battery contacts.

- **Problem:** Displayed weight fluctuates randomly
- **Solution:** Make sure to hold the scale as still and level as possible when weighing. Avoid strong air drafts and vibration sources.

- **Problem:** Displayed weight is inaccurate
- **Solution:** Perform a calibration adjustment. If you are still having trouble, contact our warranty department.

X. Error Codes

1. **OUTZ** - Zero point has drifted out of the acceptable range. Try to perform a calibration adjustment. If the problem persists, the load cell may be permanently damaged due to overloading.
2. **O-Ld** - Overload. The maximum capacity has been exceeded. Remove the extra weight to avoid permanently damaging the load cell.
3. **Lo** - Batteries are low. Replace the batteries.

XI. Care and Maintenance

1. The detachable spoons are dishwasher safe.
2. To clean the body of the scale, use a slightly damp cloth. Do not use harsh solvents or abrasives.

XII. Specifications

	SG-300
Max. Capacity	300g
Readability	0.1g
Min. Weight	0.5g
Power	2 x 1.5V “AAA” Alkaline
Display Dimensions	0.5 x 1.3 in.
Spoon Sizes	1.5 Tbsp and 3.0 Tbsp
Warranty	10 Year Limited Warranty

XIII. Capacity/Readability Charts

SG-300
300g x 0.1g 10.58oz x 0.01oz 10.15fl.oz x 0.01fl.oz 300ml x 0.1ml

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American Weigh Scales, Inc.

Norcross, GA 30092

Made In China to our exact
specifications and quality control.